

Claim Amendments

Claims 1-24 (canceled).

Claim 25. (new)

Portable apparatus for water purification, comprising:

- a) a water treatment chamber having water input/output means;
- b) a spirally-wound flexible sealed microdischarge array filled with UV-emissive gas at a pressure in the range 1-2 atmospheres, mounted in said water treatment chamber;
- c) separation assurance means (8, 9) mounting said flexible microdischarge array spiral-wound inside said water treatment chamber to restrict water flow to in-line channels at effective purifying range of such ultraviolet radiation emission from said microdischarge array; and
- d) power means, connected to said microdischarge array, effective to cause emission of ultraviolet radiation for water purification.

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Claim 26. (new)

Portable apparatus for personal water purification, comprising:

- a) a water treatment chamber having water input/output means;
- b) a spirally-wound flexible sealed microdischarge array filled with UV-emissive gas at a pressure in the range 1-2 atmospheres, mounted in said water treatment chamber;
- c) separation assurance means comprising stiffener rods (21) configuring said flexible microdischarge array as wrapped layers of a spiral-wound rectangular scroll (30), arranged loosely at nominal separation inside said water treatment chamber to restrict in-line water flow in channels at effective purifying range of such ultraviolet radiation emission; and
- d) power means, connected to said microdischarge array, effective to cause emission of ultraviolet radiation for water purification